

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF A EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF CATHERINE AVENUE AT MD 177 MOUNTAIN ROAD IN ANNE ARUNDEL COUNTY. THE LOOP DETECTORS SHALL BE REMOVED FROM THE INTERSECTION AND REPLACED WITH OVERHEAD VIDEO DETECTOR CAMERAS.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN AN EXISTING POLE MOUNTED CABINET WAS INSTALLED AT THIS LOCATION. THE INTERSECTION OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. VIDEO DETECTION CAMERAS SHALL BE INSTALLED FOR THE ACTUATION OF THE LEFT TURNS FOR THE MAINLINE MD 177 (MOUNTAIN RD) AND THE SIDE STREET PRESENCE DETECTION OF CATHERINE AVENUE.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019
MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1031
MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013
MR. JOHN S. MAYS, DISTRICT UTILITIES ENGINEER
PHONE: (410) 841-1039
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ED RODENHIZER, SHA SIGNAL SHOP
PHONE: (410) 787-7650

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

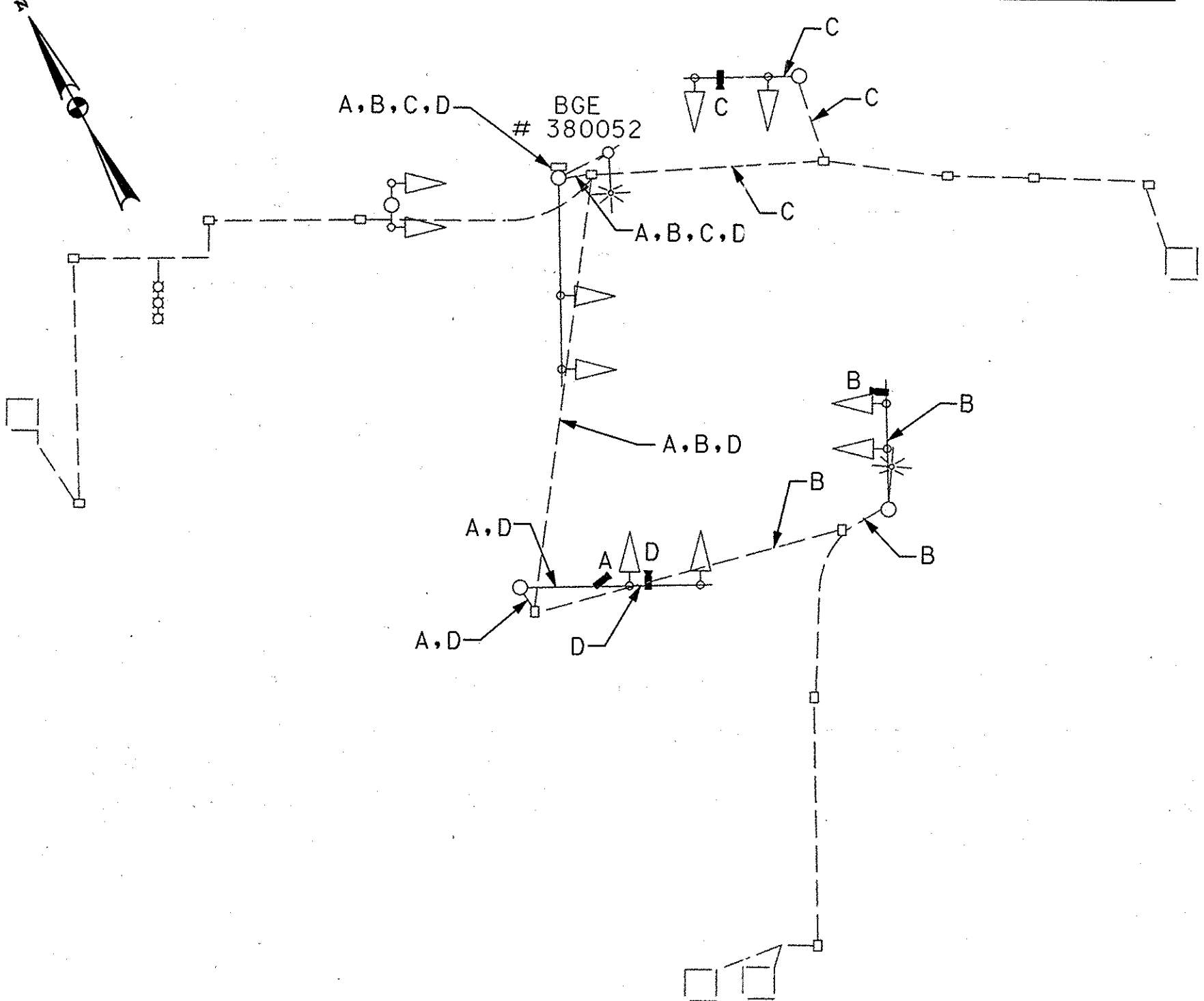
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
9046	DETECTOR RACK RETROFIT, 2-4 CHANNEL LOOP AMPLIFIER	EA	1
9086	VIDEO INTERFACE EQUIPMENT	EA	1
9570	FURNISH SHEET ALUMINUM GROUND MOUNTED SIGN	SF	51
	SHIELD ASSEMBLY SIGN (48" x 75") GROUND MOUNT	EA	2

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	LS	1
8004	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT	EA	1
8007	PULL BACK AND RE-ROUTE SIGNAL CABLES	LF	50
8026	VIDEO DETECTION CAMERA	EA	4
8027	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	4
NEG.	4 INCH x 6 INCH WOOD SIGN POST	LF	40
NEG.	INSTALL GROUND MOUNTED SIGN	SF	51
NEG.	INSTALL 3 IN. GALVANIZE CONDUIT BEND	EA	1
NEG.	FIELD DRILL	LS	1

WIRING DIAGRAM



KEY

A
B
C
D
VIDEO DETECTION CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10
	(R)	(R)	(R)	(R)	(Y)	(Y)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 1 AND 5	←G-/R	R	←G-/R	R	Y	Y	R	R/G→	R	R
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6										
PHASE 1	←G-/G	G	R	R	Y	Y	R	R	R	R
6 CHANGE	←Y-/G	G	R	R	Y	Y	R	R	R	R
PHASE 2 AND 5	R	R	←G-/G	G	Y	Y	R	R/G→	R	R
5 CHANGE	R	R	←Y-/G	G	Y	Y	R	R/Y→	R	R
PHASE 2 AND 6	G	G	G	G	Y	Y	R	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R
PHASE 4 AND 8	R	R	R	R	Y	Y	G	G	G	G
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

TOD NO: AT724-15

SHA No: AA538A59/B59

MD 177 @ Catherine Ave: MD 177

@ MD 607



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 177 (MOUNTAIN ROAD)
AT CATHERINE AVENUE**

GLENBURNIE, MARYLAND

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 10/06 CONTRACT NO. AT7245185

DESIGNED BY S. SMITH COUNTY ANNE ARUNDEL

DRAWN BY L. YEH LOGMILE 02017702.89

CHECKED BY S. RENZI T.I.M.S. NO. H882

F.A.P. NO. TOD NO.

TS NO. **328J-GI** DRAWING 2 OF 2 SHEET NO. OF



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